ELSEVIER

Surface Science 339 (1995) 373–375

surface science

Author index

Aburano, R.D., Hawoong Hong, J.M. Roesler, D.-S. Lin, T.-C. Chiang and P. Zschack, X-ray study of the Ag/Si(111) interface 339 (1995) L891
Adams, D.L ., see Christensen 339 (1995) L919
Adams, J.B., see Xu 339 (1995) 241
Adams, J.B., see Xu 339 (1995) 247
Archer, A.D., see Xu 339 (1995) 194
Atrei, A., U. Bardi, M. Galeotti, G. Rovida, M. Torrini and E. Zanazzi, Alloying at the Co/Pt(111) interface: a study by crystallographic low energy electron diffraction 339 (1995) 323
Averback, R.S., see Bellon 339 (1995) 135

Baer, D.R., see Shultz 339 (1995) 114
Barbieri, A., see Batteas 339 (1995) 142
Bardi, U., see Atrei 339 (1995) 323
Bartelt, N.C., see Khare 339 (1995) 353
Batchelor, D.R., see Christensen 339 (1995) L919
Batteas, J.D., A. Barbieri, E.K. Starkey, M.A. Van Hove and G.A. Somorjai, The Rh(110)-p2mg(2 × 1)-2O surface structure determined by automated tensor LEED: structure changes with oxygen coverage 339 (1995) 142
Bécourt, N., see Juillaguet 339 (1995) 363
Beke, D.L., see Kaganovskii 339 (1995) 233
Bellon, P., S.J. Chey, J.E. Van Nostrand, M. Ghaly, D.G. Cahill and R.S. Averback, Surface damage produced by 20 keV Ga bombardment of Ge(001) 339 (1995) 135
Benedek, G. and S. Miret-Artés, Focussed inelastic resonances in particle scattering from surfaces 339 (1995) L935
Bernasek, S.L., see Hung 339 (1995) 272
Bertolini, J.C., see Samson 339 (1995) 159
Binh, Vu Thien, see Bitar 339 (1995) 221
Bischoff, J.L., see Juillaguet 339 (1995) 363
Bitar, L., P.A. Serena, P. García-Mochales, N. García and Vu Thien Binh, Mechanism for diffusion of nanostructures and mesoscopic objects on surfaces 339 (1995) 221
Borisov, A.G., see Makhmetov 339 (1995) 182
Boulliard, J.-C., see Cohen 339 (1995) 41
Briceño-Valero, J.M., see García 339 (1995) 189
Buatier de Mongeot, F., U. Valbusa and M. Rocca, Oxygen adsorption on Ag(111) 339 (1995) 291

Cahill, D.G., see Bellon 339 (1995) 135
Chambers, S.A., Y. Gao and Y. Liang, The early stages of MgO epitaxy on lattice-matched $Cr_{0.7}Mo_{0.3}$(001) 339 (1995) 297
Chey, S.J., see Bellon 339 (1995) 135
Chiang, T.-C., see Aburano 339 (1995) L891
Christensen, S.V., K.T. Nielsen, J. Nerlov, D.R. Batchelor and D.L . Adams, Change in adsorption bond length with coverage for K/Al(111) 339 (1995) L919
Ciepliński, L. and C. Jedrzejek, Classical trajectories studies of DIET from calcium fluoride 339 (1995) L940
Cohen, C., A. L'Hoir, J. Moulin, D. Schmaus, M. Sotto, J.-L. Domange and J.-C. Boulliard, Study of atomic relaxations on clean and oxygen covered (100), (410) and (510) copper surfaces by channeling 339 (1995) 41
Conesa, J.C., Computer modeling of surfaces and defects on cerium dioxide 339 (1995) 337
Cowin, J.P., see Gallagher 339 (1995) L909

Dev, B.N., see Sekar 339 (1995) 96
Diani, M., see Juillaguet 339 (1995) 363
Domange, J.-L., see Cohen 339 (1995) 41

Einstein, T.L., see Khare 339 (1995) 353
Elswijk, H.B., see Schiller 339 (1995) L925
Engelhard, M.H., see Shultz 339 (1995) 114
Ertl, G., see Gierer 339 (1995) L903

Faguy, P.W. and N.S. Marinkovic, Linear polarization discrimination for in situ infrared spectroscopy at electrode surfaces 339 (1995) 329
Fyfield, M.S., see Gallagher 339 (1995) L909

Galeotti, M., see Atrei 339 (1995) 323
Gallagher, M.C., M.S. Fyfield, J.P. Cowin and S.A. Joyce, Imaging insulating oxides: scanning tunneling microscopy of ultrathin MgO films on Mo(001) 339 (1995) L909
Gao, Y., see Chambers 339 (1995) 297
García, N., see Bitar 339 (1995) 221
García, V.J., J.M. Briceño-Valero and L. Martinez, Kinetic parameters from a single thermal desorption spectrum 339 (1995) 189
García-Mochales, P., see Bitar 339 (1995) 221
Gauyacq, J.P., see Makhmetov 339 (1995) 182
Gellman, A.J., see Meyers 339 (1995) 57
Gewinner, G., see Juillaguet 339 (1995) 363
Ghaly, M., see Bellon 339 (1995) 135
Gierer, M., F. Mertens, H. Over, G. Ertl and R. Imbihl, Structural analyses of the c(2 × 4)-N + 2O and the (2 × 1)-N phases on Rh(110) by low-energy electron diffraction 339 (1995) L903

Gillan, M.J., see Manassidis 339 (1995) 258
Goldmann, A., see Stietz 339 (1995) 1
Goniakowski, J., see Manassidis 339 (1995) 258

Hetherington III, W.M., see Shultz 339 (1995) 114
Hong, Hawoong, see Aburano 339 (1995) L891
Hung, W.-H. and S.L. Bernasek, Adsorption and decomposition of ethylene and acetylene on Fe(100) 339 (1995) 272

Ide, Y., see Yamada 339 (1995) L914
Imbihl, R., see Gierer 339 (1995) L903

Jang, W., see Shultz 339 (1995) 114
Jedrzejek, C., see Ciepliński 339 (1995) L940
Jensen, K.F., see Xi 339 (1995) 310
Joyce, S.A., see Gallagher 339 (1995) L909
Juillaguet, S., L. Kubler, M. Diani, J.L. Bischoff, G. Gewinner, P. Wetzel and N. Bécourt, Strong element dependence of C 1s and Si 2p X-ray photoelectron diffraction profiles for identical C and Si local geometries in β-SiC 339 (1995) 363

Kaganovskii, Yu.S., D.L. Beke and S.P. Yurchenko, Shift of the boundary of a beaded thin film caused by evaporation 339 (1995) 233
Kammler, Th., S. Wehner and J. Küppers, Interaction of thermal H atoms with Ni(100)–H surfaces: through surface penetration and adsorbed hydrogen abstraction 339 (1995) 125
Kantorovich, L.N., see Manassidis 339 (1995) 258
Khare, S.V., T.L. Einstein and N.C. Bartelt, Dynamics of step doubling: simulations for a simple model and comparison with experiment 339 (1995) 353
Koomans, A.A., see Schiller 339 (1995) L925
Kubler, L., see Juillaguet 339 (1995) 363
Küppers, J., see Kammler 339 (1995) 125
Kuri, G., see Sekar 339 (1995) 96

Laroze, G., see Samson 339 (1995) 159
Latham, R.V., see Xu 339 (1995) 194
Lee, C.-K. and S.-L. Lee, Effects of the heterogeneous surface geometry on the selectivity behavior of a multi-step reaction 339 (1995) 171
Lee, S.-L., see Lee 339 (1995) 171
León, V., A simplified Kerkhof–Moulijn model for dispersion quantification from XPS atomic concentrations 339 (1995) L931
L'Hoir, A., see Cohen 339 (1995) 41
Liang, Y., see Chambers 339 (1995) 297
Lin, D.-S., see Aburano 339 (1995) L891
Liu, W., K.C. Wong and K.A.R. Mitchell, Structural details for the Cu(110)-c(6 × 2)-O surface determined by tensor LEED 339 (1995) 151
Lyman, P.F., see Overbury 339 (1995) 68

Madey, T.E., see Pesty 339 (1995) 83
Madix, R.J., see Pawela-Crew 339 (1995) 8
Madix, R.J., see Pawela-Crew 339 (1995) 23
Madix, R.J., see Vasquez, Jr. 339 (1995) 29
Mahapatra, D.P., see Sekar 339 (1995) 96
Makhmetov, G.E., A.G. Borisov, D. Teillet-Billy and J.P. Gauyacq, Singlet to triplet conversion in low energy He metastable collisions with metal surfaces: conversion via He^+ formation 339 (1995) 182
Manassidis, I., J. Goniakowski, L.N. Kantorovich and M.J. Gillan, The structure of the stoichiometric and reduced SnO_2(110) surface 339 (1995) 258
Marinkovic, N.S., see Faguy 339 (1995) 329
Martinez, L., see García 339 (1995) 189
Meister, G., see Stietz 339 (1995) 1
Mertens, F., see Gierer 339 (1995) L903
Métois, J.J., see Suzuki 339 (1995) 105
Meyers, J.M. and A.J. Gellman, The investigation of fluorinated propenes on the Cu(111) surface 339 (1995) 57
Miret-Artés, S., Resonant inelastic scattering of atoms from surfaces 339 (1995) 205
Miret-Artés, S., see Benedek 339 (1995) L935
Mitchell, K.A.R., see Liu 339 (1995) 151
Moulin, J., see Cohen 339 (1995) 41
Mullins, D.R., see Overbury 339 (1995) 68
Muscat, A., see Vasquez, Jr. 339 (1995) 29

Nerlov, J., see Christensen 339 (1995) L919
Nielsen, K.T., see Christensen 339 (1995) L919

Over, H., see Gierer 339 (1995) L903
Overbury, S.H., P.F. Lyman, D.R. Mullins and N.D. Shinn, Core-level photoemission and alkali ion scattering structure analysis of Ni adsorption and surface alloying on W(001) 339 (1995) 68

Pawela-Crew, J. and R.J. Madix, Lateral interactions in the desorption kinetics of weakly adsorbed species: unexpected differences in the desorption of C_4 alkenes and alkanes from Ag(110) due to oriented π-bonding of the alkenes 339 (1995) 8
Pawela-Crew, J., R.J. Madix and J. Stöhr, The effect of subsurface oxygen on the orientation of molecular oxygen on Ag(110) 339 (1995) 23
Pesty, F., H.-P. Steinrück and T.E. Madey, Thermal stability of Pt films on TiO_2(110): evidence for encapsulation 339 (1995) 83

Rocca, M., see Buatier de Mongeot 339 (1995) 291
Roesler, J.M., see Aburano 339 (1995) L891
Rovida, G., see Atrei 339 (1995) 323

Samson, Y., B. Tardy, J.C. Bertolini and G. Laroze, Na growth on Cu_3Si and CH_3Cl adsorption on a Na promoted Cu_3Si surface: an XPS and AES study 339 (1995) 159
Satyam, P.V., see Sekar 339 (1995) 96
Schönenberger, C., see Schiller 339 (1995) L925
Schaefer, J.A., see Stietz 339 (1995) 1
Schiller, C., A.A. Koomans, T.L. van Rooy, C. Schönenberger and H.B. Elswijk, Decapitation of tungsten field emitter tips during sputter sharpening 339 (1995) L925
Schmaus, D., see Cohen 339 (1995) 41
Sekar, K., G. Kuri, P.V. Satyam, B. Sundaravel, D.P. Mahapatra and B.N. Dev, Growth and alignment of gold silicide islands on Br-passivated vicinal Si(111) surfaces 339 (1995) 96

Serena, P.A., see Bitar 339 (1995) 221
Shinn, N.D., see Overbury 339 (1995) 68
Shultz, A.N., W. Jang, W.M. Hetherington III, D.R. Baer, L.-Q. Wang and M.H. Engelhard, Comparative second harmonic generation and X-ray photoelectron spectroscopy studies of the UV creation ond O_2 healing of Ti^{3+} defects on (110) rutile TiO_2 surfaces 339 (1995) 114
Somorjai, G.A., see Batteas 339 (1995) 142
Sotto, M., see Cohen 339 (1995) 41
Spencer, M.S., The reactions of carbon dioxide with the copper metal surface in a $Cu/ZnO/Al_2O_3$ catalyst 339 (1995) L897
Starkey, E.K., see Batteas 339 (1995) 142
Steinrück, H.-P., see Pesty 339 (1995) 83
Stietz, F., G. Meister, A. Goldmann and J.A. Schaefer, Surface anharmonicity: temperature dependence of dipole active vibrations on Ag(110) and Ag(110)(2 × 1)O 339 (1995) 1
Stöhr, J., see Pawela-Crew 339 (1995) 23
Sundaravel, B., see Sekar 339 (1995) 96
Suzuki, T., J.J. Métois and K. Yagi, REM observations of the birth stage of the flat facets on an inner cylindrical silicon surface 339 (1995) 105

Tardy, B., see Samson 339 (1995) 159
Teillet-Billy, D., see Makhmetov 339 (1995) 182
Torrini, M., see Atrei 339 (1995) 323

Valbusa, U., see Buatier de Mongeot 339 (1995) 291
Van Hove, M.A., see Batteas 339 (1995) 142
Van Nostrand, J.E., see Bellon 339 (1995) 135
Van Rooy, T.L., see Schiller 339 (1995) L925
Vasquez, Jr., N., A. Muscat and R.J. Madix, Coverage and site distribution effects in the desorption of carbon monoxide from sulfur-covered Ni(100) 339 (1995) 29

Wang, L.-Q., see Shultz 339 (1995) 114
Wehner, S., see Kammler 339 (1995) 125
Wetzel, P., see Juillaguet 339 (1995) 363
Wong, K.C., see Liu 339 (1995) 151

Xi, M. and K.F. Jensen, Chemisorption and decomposition of tris(dimethylamino) phosphine on GaAs(100) 339 (1995) 310
Xu, N.S., A.D. Archer and R.V. Latham, The dynamic, simultaneous imaging of both photon- and field-induced electron emission from "electron pin-holes" in planar vacuum-insulated HV electrodes 339 (1995) 194
Xu, W. and J.B. Adams, W adatom–adatom interactions on the W(110) surface 339 (1995) 241
Xu, W. and J.B. Adams, W dimer diffusion on W(110) and (211) surfaces 339 (1995) 247

Yagi, K., see Suzuki 339 (1995) 105
Yamada, M. and Y. Ide, Anomalous behaviors observed in the isothermal desorption of GaAs surface oxides 339 (1995) L914
Yurchenko, S.P., see Kaganovskii 339 (1995) 233

Zanazzi, E., see Atrei 339 (1995) 323
Zschack, P., see Aburano 339 (1995) L891

ELSEVIER

Surface Science 339 (1995) 376–381

surface science

Subject index

THEORETICAL METHODS, MODELS AND TECHNIQUES

Ab initio quantum chemical methods and calculations

I. Manassidis, J. Goniakowski, L.N. Kantorovich and M.J. Gillan, The structure of the stoichiometric and reduced $SnO_2(110)$ surface 339 (1995) 258

Atom–solid interactions, scattering, diffraction

G.E. Makhmetov, A.G. Borisov, D. Teillet-Billy and J.P. Gauyacq, Singlet to triplet conversion in low energy He metastable collisions with metal surfaces: conversion via He^+ formation 339 (1995) 182
S. Miret-Artés, Resonant inelastic scattering of atoms from surfaces 339 (1995) 205
W. Xu and J.B. Adams, W adatom–adatom interactions on the W(110) surface 339 (1995) 241

Computer simulations

P. Bellon, S.J. Chey, J.E. Van Nostrand, M. Ghaly, D.G. Cahill and R.S. Averback, Surface damage produced by 20 keV Ga bombardment of Ge(001) 339 (1995) 135
C.-K. Lee and S.-L. Lee, Effects of the heterogeneous surface geometry on the selectivity behavior of a multi-step reaction 339 (1995) 171
L. Bitar, P.A. Serena, P. García-Mochales, N. García and Vu Thien Binh, Mechanism for diffusion of nanostructures and mesoscopic objects on surfaces 339 (1995) 221
L. Ciepliński and C. Jedrzejek, Classical trajectories studies of DIET from calcium fluoride 339 (1995) L940
W. Xu and J.B. Adams, W adatom–adatom interactions on the W(110) surface 339 (1995) 241
W. Xu and J.B. Adams, W dimer diffusion on W(110) and (211) surfaces 339 (1995) 247
J.C. Conesa, Computer modeling of surfaces and defects on cerium dioxide 339 (1995) 337
S.V. Khare, T.L. Einstein and N.C. Bartelt, Dynamics of step doubling: simulations for a simple model and comparison with experiment 339 (1995) 353
S. Juillaguet, L. Kubler, M. Diani, J.L. Bischoff, G. Gewinner, P. Wetzel and N. Bécourt, Strong element dependence of C 1s and Si 2p X-ray photoelectron diffraction profiles for identical C and Si local geometries in β-SiC 339 (1995) 363

Construction and use of effective interatomic interactions

W. Xu and J.B. Adams, W adatom–adatom interactions on the W(110) surface 339 (1995) 241
W. Xu and J.B. Adams, W dimer diffusion on W(110) and (211) surfaces 339 (1995) 247
J.C. Conesa, Computer modeling of surfaces and defects on cerium dioxide 339 (1995) 337

Density functional calculations

I. Manassidis, J. Goniakowski, L.N. Kantorovich and M.J. Gillan, The structure of the stoichiometric and reduced $SnO_2(110)$ surface 339 (1995) 258

Electron–solid interactions, scattering, diffraction

A. Atrei, U. Bardi, M. Galeotti, G. Rovida, M. Torrini and E. Zanazzi, Alloying at the Co/Pt(111) interface: a study by crystallographic low energy electron diffraction 339 (1995) 323

Equilibrium thermodynamics and statistical mechanics

M.S. Spencer, The reactions of carbon dioxide with the copper metal surface in a $Cu/ZnO/Al_2O_3$ catalyst 339 (1995) L897

Ion–solid interactions, scattering, channeling

G.E. Makhmetov, A.G. Borisov, D. Teillet-Billy and J.P. Gauyacq, Singlet to triplet conversion in low energy He metastable collisions with metal surfaces: conversion via He^+ formation 339 (1995) 182

Ising models

S.V. Khare, T.L. Einstein and N.C. Bartelt, Dynamics of step doubling: simulations for a simple model and comparison with experiment 339 (1995) 353

Jellium models

G.E. Makhmetov, A.G. Borisov, D. Teillet-Billy and J.P. Gauyacq, Singlet to triplet conversion in low energy He metastable collisions with metal surfaces: conversion via He^+ formation 339 (1995) 182

Models of non-equilibrium phenomena

S.V. Khare, T.L. Einstein and N.C. Bartelt, Dynamics of step doubling: simulations for a simple model and comparison with experiment 339 (1995) 353

Models of surface chemical reactions

C.-K. Lee and S.-L. Lee, Effects of the heterogeneous surface geometry on the selectivity behavior of a multi-step reaction 339 (1995) 171

Models of surface kinetics

J. Pawela-Crew and R.J. Madix, Lateral interactions in the desorption kinetics of weakly adsorbed species: unexpected differences in the desorption of C_4 alkenes and alkanes from Ag(110) due to oriented π-bonding of the alkenes 339 (1995) 8

N. Vasquez, Jr., A. Muscat and R.J. Madix, Coverage and site distribution effects in the desorption of carbon monoxide from sulfur-covered Ni(100) 339 (1995) 29

L. Bitar, P.A. Serena, P. García-Mochales, N. García and Vu Thien Binh, Mechanism for diffusion of nanostructures and mesoscopic objects on surfaces 339 (1995) 221

Yu.S. Kaganovskii, D.L. Beke and S.P. Yurchenko, Shift of the boundary of a beaded thin film caused by evaporation 339 (1995) 233

M. Yamada and Y. Ide, Anomalous behaviors observed in the isothermal desorption of GaAs surface oxides 339 (1995) L914

S.V. Khare, T.L. Einstein and N.C. Bartelt, Dynamics of step doubling: simulations for a simple model and comparison with experiment 339 (1995) 353

Molecular dynamics

P. Bellon, S.J. Chey, J.E. Van Nostrand, M. Ghaly, D.G. Cahill and R.S. Averback, Surface damage produced by 20 keV Ga bombardment of Ge(001) 339 (1995) 135

Non-equilibrium thermodynamics and statistical mechanics

S.V. Khare, T.L. Einstein and N.C. Bartelt, Dynamics of step doubling: simulations for a simple model and comparison with experiment 339 (1995) 353

Semi-empirical models and model calculations

V. León, A simplified Kerkhof–Moulijn model for dispersion quantification from XPS atomic concentrations 339 (1995) L931

EXPERIMENTAL SAMPLE PREPARATION AND CHARACTERIZATION METHODS

Atom–solid scattering and diffraction – inelastic

G. Benedek and S. Miret-Artés, Focussed inelastic resonances in particle scattering from surfaces 339 (1995) L935

Atomic force microscopy

S.A. Chambers, Y. Gao and Y. Liang, The early stages of MgO epitaxy on lattice-matched $Cr_{0.7}Mo_{0.3}$(001) 339 (1995) 297

Auger electron spectroscopy

N. Vasquez, Jr., A. Muscat and R.J. Madix, Coverage and site distribution effects in the desorption of carbon monoxide from sulfur-covered Ni(100) 339 (1995) 29

Y. Samson, B. Tardy, J.C. Bertolini and G. Laroze, Na growth on Cu_3Si and CH_3Cl adsorption on a Na promoted Cu_3Si surface: an XPS and AES study 339 (1995) 159

W.-H. Hung and S.L. Bernasek, Adsorption and decomposition of ethylene and acetylene on Fe(100) 339 (1995) 272

Desorption induced by electronic transitions (DIET)

L. Ciepliński and C. Jedrzejek, Classical trajectories studies of DIET from calcium fluoride 339 (1995) L940

Electron stimulated desorption (ESD)

L. Ciepliński and C. Jedrzejek, Classical trajectories studies of DIET from calcium fluoride 339 (1995) L940

Photon stimulated desorption (PSD)

L. Ciepliński and C. Jedrzejek, Classical trajectories studies of DIET from calcium fluoride 339 (1995) L940

Electron emission measurements

Field emission

C. Schiller, A.A. Koomans, T.L. van Rooy, C. Schönenberger and H.B. Elswijk, Decapitation of tungsten field emitter tips during sputter sharpening 339 (1995) L925

Electron energy loss spectroscopy

F. Stietz, G. Meister, A. Goldmann and J.A. Schaefer, Surface anharmonicity: temperature dependence of dipole active vibrations on Ag(110) and Ag(110)(2 × 1)O 339 (1995) 1

J.M. Meyers and A.J. Gellman, The investigation of fluorinated propenes on the Cu(111) surface 339 (1995) 57

W.-H. Hung and S.L. Bernasek, Adsorption and decomposition of ethylene and acetylene on Fe(100) 339 (1995) 272

F. Buatier de Mongeot, U. Valbusa and M. Rocca, Oxygen adsorption on Ag(111) 339 (1995) 291

Electron microscopy

Reflection electron microscopy (REM)

T. Suzuki, J.J. Métois and K. Yagi, REM observations of the birth stage of the flat facets on an inner cylindrical silicon surface 339 (1995) 105

Scanning electron microscopy (SEM)

K. Sekar, G. Kuri, P.V. Satyam, B. Sundaravel, D.P. Mahapatra and B.N. Dev, Growth and alignment of gold silicide islands on Br-passivated vicinal Si(111) surfaces 339 (1995) 96

Electron–solid diffraction

S.A. Chambers, Y. Gao and Y. Liang, The early stages of MgO epitaxy on lattice-matched $Cr_{0.7}Mo_{0.3}$(001) 339 (1995) 297

Low energy electron diffraction (LEED)

J.D. Batteas, A. Barbieri, E.K. Starkey, M.A. Van Hove and G.A. Somorjai, The Rh(110)-p2mg(2 × 1)-2O surface structure determined by automated tensor LEED: structure changes with oxygen coverage 339 (1995) 142

W. Liu, K.C. Wong and K.A.R. Mitchell, Structural details for the Cu(110)-c(6 × 2)-O surface determined by tensor LEED 339 (1995) 151

M. Gierer, F. Mertens, H. Over, G. Ertl and R. Imbihl, Structural analyses of the c(2 × 4)-N + 2O and the (2 × 1)-N phases on Rh(110) by low-energy electron diffraction 339 (1995) L903

W.-H. Hung and S.L. Bernasek, Adsorption and decomposition of ethylene and acetylene on Fe(100) 339 (1995) 272

A. Atrei, U. Bardi, M. Galeotti, G. Rovida, M. Torrini and E. Zanazzi, Alloying at the Co/Pt(111) interface: a study by crystallographic low energy electron diffraction 339 (1995) 323

S.V. Khare, T.L. Einstein and N.C. Bartelt, Dynamics of step doubling: simulations for a simple model and comparison with experiment 339 (1995) 353

Photoelectron diffraction

S.V. Christensen, K.T. Nielsen, J. Nerlov, D.R. Batchelor and D.L. Adams, Change in adsorption bond length with coverage for K/Al(111) 339 (1995) L919

S.A. Chambers, Y. Gao and Y. Liang, The early stages of MgO epitaxy on lattice-matched $Cr_{0.7}Mo_{0.3}$(001) 339 (1995) 297

S. Juillaguet, L. Kubler, M. Diani, J.L. Bischoff, G. Gewinner, P. Wetzel and N. Bécourt, Strong element dependence of C 1s and Si 2p X-ray photoelectron diffraction profiles for identical C and Si local geometries in β-SiC 339 (1995) 363

Electron–solid scattering and transmission – inelastic

G. Benedek and S. Miret-Artés, Focussed inelastic resonances in particle scattering from surfaces 339 (1995) L935

Field emission spectroscopy

N.S. Xu, A.D. Archer and R.V. Latham, The dynamic, simultaneous imaging of both photon- and field-induced electron emission from "electron pin-holes" in planar vacuum-insulated HV electrodes 339 (1995) 194

Ion implantation

P. Bellon, S.J. Chey, J.E. Van Nostrand, M. Ghaly, D.G. Cahill and R.S. Averback, Surface damage produced by 20 keV Ga bombardment of Ge(001) 339 (1995) 135

Ion scattering spectroscopy

High energy ion scattering (HEIS)

K. Sekar, G. Kuri, P.V. Satyam, B. Sundaravel, D.P. Mahapatra and B.N. Dev, Growth and alignment of gold silicide islands on Br-passivated vicinal Si(111) surfaces 339 (1995) 96

Low energy ion scattering (LEIS)

S.H. Overbury, P.F. Lyman, D.R. Mullins and N.D. Shinn, Core-level photoemission and alkali ion scattering structure analysis of Ni adsorption and surface alloying on W(001) 339 (1995) 68

F. Pesty, H.-P. Steinrück and T.E. Madey, Thermal stability of Pt films on TiO_2(110): evidence for encapsulation 339 (1995) 83

Molecular beam epitaxy

S.A. Chambers, Y. Gao and Y. Liang, The early stages of MgO epitaxy on lattice-matched $Cr_{0.7}Mo_{0.3}$(001) 339 (1995) 297

Molecule–solid reactions

M.S. Spencer, The reactions of carbon dioxide with the copper metal surface in a $Cu/ZnO/Al_2O_3$ catalyst 339 (1995) L897

J. Pawela-Crew, R.J. Madix and J. Stöhr, The effect of subsurface oxygen on the orientation of molecular oxygen on Ag(110) 339 (1995) 23

Non-linear optical methods

Second harmonic generation

A.N. Shultz, W. Jang, W.M. Hetherington, III, D.R. Baer, L.-Q. Wang and M.H. Engelhard, Comparative second harmonic generation and X-ray photoelectron spectroscopy studies of the UV creation ond O_2 healing of Ti^{3+} defects on (10) rutile TiO_2 surfaces 339 (1995) 114

Photoelectron spectroscopy

Soft X-ray photoelectron spectroscopy (using synchrotron radiation)

S.H. Overbury, P.F. Lyman, D.R. Mullins and N.D. Shinn, Core-level photoemission and alkali ion scattering structure analysis of Ni adsorption and surface alloying on W(001) 339 (1995) 68

Y. Samson, B. Tardy, J.C. Bertolini and G. Laroze, Na growth on Cu_3Si and CH_3Cl adsorption on a Na promoted Cu_3Si surface: an XPS and AES study 339 (1995) 159

X-ray photoelectron spectroscopy

J. Pawela-Crew, R.J. Madix and J. Stöhr, The effect of subsurface oxygen on the orientation of molecular oxygen on Ag(110) 339 (1995) 23

F. Pesty, H.-P. Steinrück and T.E. Madey, Thermal stability of Pt films on TiO_2(110): evidence for encapsulation 339 (1995) 83

A.N. Shultz, W. Jang, W.M. Hetherington, III, D.R. Baer, L.-Q. Wang and M.H. Engelhard, Comparative second harmonic generation and X-ray photoelectron spectroscopy studies of the UV creation ond O_2 healing of Ti^{3+} defects on (10) rutile TiO_2 surfaces 339 (1995) 114

V. León, A simplified Kerkhof–Moulijn model for dispersion quantification from XPS atomic concentrations 339 (1995) L931

S. Juillaguet, L. Kubler, M. Diani, J.L. Bischoff, G. Gewinner, P. Wetzel and N. Bécourt, Strong element dependence of C 1s and Si 2p X-ray photoelectron diffraction profiles for identical C and Si local geometries in β-SiC 339 (1995) 363

Photon absorption spectroscopy

Infrared absorption spectroscopy

P.W. Faguy and N.S. Marinkovic, Linear polarization discrimination for in situ infrared spectroscopy at electrode surfaces 339 (1995) 329

Near edge extended X-ray absorption fine structure (NEXAFS)

J. Pawela-Crew and R.J. Madix, Lateral interactions in the desorption kinetics of weakly adsorbed species: unexpected differences in the desorption of C_4 alkenes and alkanes from Ag(110) due to oriented π-bonding of the alkenes 339 (1995) 8

J. Pawela-Crew, R.J. Madix and J. Stöhr, The effect of subsurface oxygen on the orientation of molecular oxygen on Ag(110) 339 (1995) 23

Reflection spectroscopy

P.W. Faguy and N.S. Marinkovic, Linear polarization discrimination for in situ infrared spectroscopy at electrode surfaces 339 (1995) 329

Scanning tunneling microscopy

M.C. Gallagher, M.S. Fyfield, J.P. Cowin and S.A. Joyce, Imaging insulating oxides: scanning tunneling microscopy of ultrathin MgO films on Mo(001) 339 (1995) L909

Thermal desorption spectroscopy

J. Pawela-Crew and R.J. Madix, Laterál interactions in the desorption kinetics of weakly adsorbed species: unexpected differences in the desorption of C_4 alkenes and alkanes from Ag(110) due to oriented π-bonding of the alkenes 339 (1995) 8

J. Pawela-Crew, R.J. Madix and J. Stöhr, The effect of subsurface oxygen on the orientation of molecular oxygen on Ag(110) 339 (1995) 23

J.M. Meyers and A.J. Gellman, The investigation of fluorinated propenes on the Cu(111) surface 339 (1995) 57

Y. Samson, B. Tardy, J.C. Bertolini and G. Laroze, Na growth on Cu_3Si and CH_3Cl adsorption on a Na promoted Cu_3Si surface: an XPS and AES study 339 (1995) 159

V.J. García, J.M. Briceño-Valero and L. Martinez, Kinetic parameters from a single thermal desorption spectrum 339 (1995) 189

M. Yamada and Y. Ide, Anomalous behaviors observed in the isothermal desorption of GaAs surface oxides 339 (1995) L914

W.-H. Hung and S.L. Bernasek, Adsorption and decomposition of ethylene and acetylene on Fe(100) 339 (1995) 272

M. Xi and K.F. Jensen, Chemisorption and decomposition of tris(dimethylamino) phosphine on GaAs(100) 339 (1995) 310

PHENOMENA

Adsorption kinetics

J. Pawela-Crew and R.J. Madix, Lateral interactions in the desorption kinetics of weakly adsorbed species: unexpected differences in the desorption of C_4 alkenes and alkanes from Ag(110) due to oriented π-bonding of the alkenes 339 (1995) 8

Atom–solid interactions

Th. Kammler, S. Wehner and J. Küppers, Interaction of thermal H atoms with Ni(100)–H surfaces: through surface penetration and adsorbed hydrogen abstraction 339 (1995) 125

G.E. Makhmetov, A.G. Borisov, D. Teillet-Billy and J.P. Gauyacq, Singlet to triplet conversion in low energy He metastable collisions with metal surfaces: conversion via He^+ formation 339 (1995) 182

S. Miret-Artés, Resonant inelastic scattering of atoms from surfaces 339 (1995) 205

G. Benedek and S. Miret-Artés, Focussed inelastic resonances in particle scattering from surfaces 339 (1995) L935

Catalysis

M.S. Spencer, The reactions of carbon dioxide with the copper metal surface in a $Cu/ZnO/Al_2O_3$ catalyst 339 (1995) L897

J. Pawela-Crew, R.J. Madix and J. Stöhr, The effect of subsurface oxygen on the orientation of molecular oxygen on Ag(110) 339 (1995) 23

N. Vasquez, Jr., A. Muscat and R.J. Madix, Coverage and site distribution effects in the desorption of carbon monoxide from sulfur-covered Ni(100) 339 (1995) 29

Y. Samson, B. Tardy, J.C. Bertolini and G. Laroze, Na growth on Cu_3Si and CH_3Cl adsorption on a Na promoted Cu_3Si surface: an XPS and AES study 339 (1995) 159

C.-K. Lee and S.-L. Lee, Effects of the heterogeneous surface geometry on the selectivity behavior of a multi-step reaction 339 (1995) 171

W.-H. Hung and S.L. Bernasek, Adsorption and decomposition of ethylene and acetylene on Fe(100) 339 (1995) 272

J.C. Conesa, Computer modeling of surfaces and defects on cerium dioxide 339 (1995) 337

Chemisorption

M.S. Spencer, The reactions of carbon dioxide with the copper metal surface in a $Cu/ZnO/Al_2O_3$ catalyst 339 (1995) L897

F. Stietz, G. Meister, A. Goldmann and J.A. Schaefer, Surface anharmonicity: temperature dependence of dipole active vibrations on Ag(110) and Ag(110)(2 × 1)O 339 (1995) 1

J. Pawela-Crew, R.J. Madix and J. Stöhr, The effect of subsurface oxygen on the orientation of molecular oxygen on Ag(110) 339 (1995) 23

J.M. Meyers and A.J. Gellman, The investigation of fluorinated propenes on the Cu(111) surface 339 (1995) 57

A.N. Shultz, W. Jang, W.M. Hetherington, III, D.R. Baer, L.-Q. Wang and M.H. Engelhard, Comparative second harmonic generation and X-ray photoelectron spectroscopy studies of the UV creation ond O_2 healing of Ti^{3+} defects on (10) rutile TiO_2 surfaces 339 (1995) 114

J.D. Batteas, A. Barbieri, E.K. Starkey, M.A. Van Hove and G.A. Somorjai, The Rh(110)-p2mg(2 × 1)-2O surface structure determined by automated tensor LEED: structure changes with oxygen coverage 339 (1995) 142

W.-H. Hung and S.L. Bernasek, Adsorption and decomposition of ethylene and acetylene on Fe(100) 339 (1995) 272

F. Buatier de Mongeot, U. Valbusa and M. Rocca, Oxygen adsorption on Ag(111) 339 (1995) 291

P.W. Faguy and N.S. Marinkovic, Linear polarization discrimination for in situ infrared spectroscopy at electrode surfaces 339 (1995) 329

Diffusion and migration

W. Xu and J.B. Adams, W adatom–adatom interactions on the W(110) surface 339 (1995) 241

W. Xu and J.B. Adams, W dimer diffusion on W(110) and (211) surfaces 339 (1995) 247

Electron–solid interactions

G. Benedek and S. Miret-Artés, Focussed inelastic resonances in particle scattering from surfaces 339 (1995) L935

Epitaxy

K. Sekar, G. Kuri, P.V. Satyam, B. Sundaravel, D.P. Mahapatra and B.N. Dev, Growth and alignment of gold silicide islands on Br-passivated vicinal Si(111) surfaces 339 (1995) 96

M.C. Gallagher, M.S. Fyfield, J.P. Cowin and S.A. Joyce, Imaging insulating oxides: scanning tunneling microscopy of ultrathin MgO films on Mo(001) 339 (1995) L909

S.A. Chambers, Y. Gao and Y. Liang, The early stages of MgO epitaxy on lattice-matched $Cr_{0.7}Mo_{0.3}$(001) 339 (1995) 297

Evaporation and sublimation

Yu.S. Kaganovskii, D.L. Beke and S.P. Yurchenko, Shift of the boundary of a beaded thin film caused by evaporation 339 (1995) 233

Field ionization

C. Schiller, A.A. Koomans, T.L. van Rooy, C. Schönenberger and H.B. Elswijk, Decapitation of tungsten field emitter tips during sputter sharpening 339 (1995) L925

Growth

K. Sekar, G. Kuri, P.V. Satyam, B. Sundaravel, D.P. Mahapatra and B.N. Dev, Growth and alignment of gold silicide islands on Br-passivated vicinal Si(111) surfaces 339 (1995) 96

Y. Samson, B. Tardy, J.C. Bertolini and G. Laroze, Na growth on Cu_3Si and CH_3Cl adsorption on a Na promoted Cu_3Si surface: an XPS and AES study 339 (1995) 159

Ion implantation

P. Bellon, S.J. Chey, J.E. Van Nostrand, M. Ghaly, D.G. Cahill and R.S. Averback, Surface damage produced by 20 keV Ga bombardment of Ge(001) 339 (1995) 135

Oxidation

J. Pawela-Crew, R.J. Madix and J. Stöhr, The effect of subsurface oxygen on the orientation of molecular oxygen on Ag(110) 339 (1995) 23

S.V. Khare, T.L. Einstein and N.C. Bartelt, Dynamics of step doubling: simulations for a simple model and comparison with experiment 339 (1995) 353

Photoelectron diffraction

S. Juillaguet, L. Kubler, M. Diani, J.L. Bischoff, G. Gewinner, P. Wetzel and N. Bécourt, Strong element dependence of C 1s and Si 2p X-ray photoelectron diffraction profiles for identical C and Si local geometries in β-SiC 339 (1995) 363

Physical adsorption

W.-H. Hung and S.L. Bernasek, Adsorption and decomposition of ethylene and acetylene on Fe(100) 339 (1995) 272

Sputtering

P. Bellon, S.J. Chey, J.E. Van Nostrand, M. Ghaly, D.G. Cahill and R.S. Averback, Surface damage produced by 20 keV Ga bombardment of Ge(001) 339 (1995) 135

C. Schiller, A.A. Koomans, T.L. van Rooy, C. Schönenberger and H.B. Elswijk, Decapitation of tungsten field emitter tips during sputter sharpening 339 (1995) L925

Sticking

F. Buatier de Mongeot, U. Valbusa and M. Rocca, Oxygen adsorption on Ag(111) 339 (1995) 291

Surface chemical reaction

Th. Kammler, S. Wehner and J. Küppers, Interaction of thermal H atoms with Ni(100)–H surfaces: through surface penetration and adsorbed hydrogen abstraction 339 (1995) 125

M. Yamada and Y. Ide, Anomalous behaviors observed in the isothermal desorption of GaAs surface oxides 339 (1995) L914

W.-H. Hung and S.L. Bernasek, Adsorption and decomposition of ethylene and acetylene on Fe(100) 339 (1995) 272

M. Xi and K.F. Jensen, Chemisorption and decomposition of tris(dimethylamino) phosphine on GaAs(100) 339 (1995) 310

Surface diffusion

L. Bitar, P.A. Serena, P. García-Mochales, N. García and Vu Thien Binh, Mechanism for diffusion of nanostructures and mesoscopic objects on surfaces 339 (1995) 221

Yu.S. Kaganovskii, D.L. Beke and S.P. Yurchenko, Shift of the boundary of a beaded thin film caused by evaporation 339 (1995) 233

W. Xu and J.B. Adams, W adatom–adatom interactions on the W(110) surface 339 (1995) 241

W. Xu and J.B. Adams, W dimer diffusion on W(110) and (211) surfaces 339 (1995) 247

Surface electronic phenomena (work function, surface potential, surface states, etc.)

A.N. Shultz, W. Jang, W.M. Hetherington, III, D.R. Baer, L.-Q. Wang and M.H. Engelhard, Comparative second harmonic generation and X-ray photoelectron spectroscopy studies of the UV creation ond O_2 healing of Ti^{3+} defects on (10) rutile TiO_2 surfaces 339 (1995) 114

G.E. Makhmetov, A.G. Borisov, D. Teillet-Billy and J.P. Gauyacq, Singlet to triplet conversion in low energy He metastable collisions with metal surfaces: conversion via He^+ formation 339 (1995) 182

Surface energy

T. Suzuki, J.J. Métois and K. Yagi, REM observations of the birth stage of the flat facets on an inner cylindrical silicon surface 339 (1995) 105

J.C. Conesa, Computer modeling of surfaces and defects on cerium dioxide 339 (1995) 337

Surface relaxation and reconstruction

R.D. Aburano, Hawoong Hong, J.M. Roesler, D.-S. Lin, T.-C. Chiang and P. Zschack, X-ray study of the Ag/Si(111) interface 339 (1995) L891

C. Cohen, A. L'Hoir, J. Moulin, D. Schmaus, M. Sotto, J.-L. Domange and J.-C. Boulliard, Study of atomic relaxations on clean and oxygen covered (100), (410) and (510) copper surfaces by channeling 339 (1995) 41

J.D. Batteas, A. Barbieri, E.K. Starkey, M.A. Van Hove and G.A. Somorjai, The Rh(110)-p2mg(2×1)-2O surface structure determined by automated tensor LEED: structure changes with oxygen coverage 339 (1995) 142

W. Liu, K.C. Wong and K.A.R. Mitchell, Structural details for the Cu(110)-c(6×2)-O surface determined by tensor LEED 339 (1995) 151

S.V. Christensen, K.T. Nielsen, J. Nerlov, D.R. Batchelor and D.L. Adams, Change in adsorption bond length with coverage for K/Al(111) 339 (1995) L919

A. Atrei, U. Bardi, M. Galeotti, G. Rovida, M. Torrini and E. Zanazzi, Alloying at the Co/Pt(111) interface: a study by crystallographic low energy electron diffraction 339 (1995) 323

J.C. Conesa, Computer modeling of surfaces and defects on cerium dioxide 339 (1995) 337

Surface roughening

P. Bellon, S.J. Chey, J.E. Van Nostrand, M. Ghaly, D.G. Cahill and R.S. Averback, Surface damage produced by 20 keV Ga bombardment of Ge(001) 339 (1995) 135

Surface stress

C. Schiller, A.A. Koomans, T.L. van Rooy, C. Schönenberger and H.B. Elswijk, Decapitation of tungsten field emitter tips during sputter sharpening 339 (1995) L925

Surface structure, morphology, roughness, and topography

C. Cohen, A. L'Hoir, J. Moulin, D. Schmaus, M. Sotto, J.-L. Domange and J.-C. Boulliard, Study of atomic relaxations on clean and oxygen covered (100), (410) and (510) copper surfaces by channeling 339 (1995) 41

S.H. Overbury, P.F. Lyman, D.R. Mullins and N.D. Shinn, Core-level photoemission and alkali ion scattering structure analysis of Ni adsorption and surface alloying on W(001) 339 (1995) 68

T. Suzuki, J.J. Métois and K. Yagi, REM observations of the birth stage of the flat facets on an inner cylindrical silicon surface 339 (1995) 105

A.N. Shultz, W. Jang, W.M. Hetherington, III, D.R. Baer, L.-Q. Wang and M.H. Engelhard, Comparative second harmonic generation and X-ray photoelectron spectroscopy studies of the UV creation ond O_2 healing of Ti^{3+} defects on (10) rutile TiO_2 surfaces 339 (1995) 114

M.C. Gallagher, M.S. Fyfield, J.P. Cowin and S.A. Joyce, Imaging insulating oxides: scanning tunneling microscopy of ultrathin MgO films on Mo(001) 339 (1995) L909

M. Yamada and Y. Ide, Anomalous behaviors observed in the isothermal desorption of GaAs surface oxides 339 (1995) L914

J.C. Conesa, Computer modeling of surfaces and defects on cerium dioxide 339 (1995) 337

Thermal desorption

J. Pawela-Crew and R.J. Madix, Lateral interactions in the desorption kinetics of weakly adsorbed species: unexpected differences in the desorption of C_4 alkenes and alkanes from Ag(110) due to oriented π-bonding of the alkenes 339 (1995) 8

N. Vasquez, Jr., A. Muscat and R.J. Madix, Coverage and site distribution effects in the desorption of carbon monoxide from sulfur-covered Ni(100) 339 (1995) 29

J.M. Meyers and A.J. Gellman, The investigation of fluorinated propenes on the Cu(111) surface 339 (1995) 57

M. Yamada and Y. Ide, Anomalous behaviors observed in the isothermal desorption of GaAs surface oxides 339 (1995) L914

W.-H. Hung and S.L. Bernasek, Adsorption and decomposition of ethylene and acetylene on Fe(100) 339 (1995) 272

M. Xi and K.F. Jensen, Chemisorption and decomposition of tris(dimethylamino) phosphine on GaAs(100) 339 (1995) 310

Vibrations of adsorbed molecules

N. Vasquez, Jr., A. Muscat and R.J. Madix, Coverage and site distribution effects in the desorption of carbon monoxide from sulfur-covered Ni(100) 339 (1995) 29

J.M. Meyers and A.J. Gellman, The investigation of fluorinated propenes on the Cu(111) surface 339 (1995) 57

P.W. Faguy and N.S. Marinkovic, Linear polarization discrimination for in situ infrared spectroscopy at electrode surfaces 339 (1995) 329

ELSEVIER

Surface Science 339 (1995) 382–386

surface science

Materials index

ELEMENTAL AND CHEMICAL IDENTITY

Elements

Alkali metals

Y. Samson, B. Tardy, J.C. Bertolini and G. Laroze, Na growth on Cu_3Si and CH_3Cl adsorption on a Na promoted Cu_3Si surface: an XPS and AES study 339 (1995) 159

S.V. Christensen, K.T. Nielsen, J. Nerlov, D.R. Batchelor and D.L. Adams, Change in adsorption bond length with coverage for K/Al(111) 339 (1995) L919

Aluminum

G.E. Makhmetov, A.G. Borisov, D. Teillet-Billy and J.P. Gauyacq, Singlet to triplet conversion in low energy He metastable collisions with metal surfaces: conversion via He^+ formation 339 (1995) 182

Cobalt

A. Atrei, U. Bardi, M. Galeotti, G. Rovida, M. Torrini and E. Zanazzi, Alloying at the Co/Pt(111) interface: a study by crystallographic low energy electron diffraction 339 (1995) 323

Copper

M.S. Spencer, The reactions of carbon dioxide with the copper metal surface in a $Cu/ZnO/Al_2O_3$ catalyst 339 (1995) L897

C. Cohen, A. L'Hoir, J. Moulin, D. Schmaus, M. Sotto, J.-L. Domange and J.-C. Boulliard, Study of atomic relaxations on clean and oxygen covered (100), (410) and (510) copper surfaces by channeling 339 (1995) 41

J.M. Meyers and A.J. Gellman, The investigation of fluorinated propenes on the Cu(111) surface 339 (1995) 57

W. Liu, K.C. Wong and K.A.R. Mitchell, Structural details for the Cu(110)-c(6 × 2)-O surface determined by tensor LEED 339 (1995) 151

S. Miret-Artés, Resonant inelastic scattering of atoms from surfaces 339 (1995) 205

Yu.S. Kaganovskii, D.L. Beke and S.P. Yurchenko, Shift of the boundary of a beaded thin film caused by evaporation 339 (1995) 233

G. Benedek and S. Miret-Artés, Focussed inelastic resonances in particle scattering from surfaces 339 (1995) L935

Germanium

P. Bellon, S.J. Chey, J.E. Van Nostrand, M. Ghaly, D.G. Cahill and R.S. Averback, Surface damage produced by 20 keV Ga bombardment of Ge(001) 339 (1995) 135

Graphite

G. Benedek and S. Miret-Artés, Focussed inelastic resonances in particle scattering from surfaces 339 (1995) L935

Iron

W.-H. Hung and S.L. Bernasek, Adsorption and decomposition of ethylene and acetylene on Fe(100) 339 (1995) 272

Molybdenum

Yu.S. Kaganovskii, D.L. Beke and S.P. Yurchenko, Shift of the boundary of a beaded thin film caused by evaporation 339 (1995) 233

Nickel

N. Vasquez, Jr., A. Muscat and R.J. Madix, Coverage and site distribution effects in the desorption of carbon monoxide from sulfur-covered Ni(100) 339 (1995) 29

S.H. Overbury, P.F. Lyman, D.R. Mullins and N.D. Shinn, Core-level photoemission and alkali ion scattering structure analysis of Ni adsorption and surface alloying on W(001) 339 (1995) 68

Th. Kammler, S. Wehner and J. Küppers, Interaction of thermal H atoms with Ni(100)–H surfaces: through surface penetration and adsorbed hydrogen abstraction 339 (1995) 125

S.V. Khare, T.L. Einstein and N.C. Bartelt, Dynamics of step doubling: simulations for a simple model and comparison with experiment 339 (1995) 353

Nitrogen

M. Gierer, F. Mertens, H. Over, G. Ertl and R. Imbihl, Structural analyses of the c(2 × 4)-N + 2O and the (2 × 1)-N phases on Rh(110) by low-energy electron diffraction 339 (1995) L903

Noble gases

C. Schiller, A.A. Koomans, T.L. van Rooy, C. Schönenberger and H.B. Elswijk, Decapitation of tungsten field emitter tips during sputter sharpening 339 (1995) L925

Platinum

F. Pesty, H.-P. Steinrück and T.E. Madey, Thermal stability of Pt films on TiO_2(110): evidence for encapsulation 339 (1995) 83

G. Benedek and S. Miret-Artés, Focussed inelastic resonances in particle scattering from surfaces 339 (1995) L935

A. Atrei, U. Bardi, M. Galeotti, G. Rovida, M. Torrini and E. Zanazzi, Alloying at the Co/Pt(111) interface: a study by crystallographic low energy electron diffraction 339 (1995) 323

P.W. Faguy and N.S. Marinkovic, Linear polarization discrimination for in situ infrared spectroscopy at electrode surfaces 339 (1995) 329

Rh(110)

M. Gierer, F. Mertens, H. Over, G. Ertl and R. Imbihl, Structural analyses of the c(2 × 4)-N + 2O and the (2 × 1)-N phases on Rh(110) by low-energy electron diffraction 339 (1995) L903

Rhodium

J.D. Batteas, A. Barbieri, E.K. Starkey, M.A. Van Hove and G.A. Somorjai, The Rh(110)-p2mg(2 × 1)-2O surface structure determined by automated tensor LEED: structure changes with oxygen coverage 339 (1995) 142

S.V. Khare, T.L. Einstein and N.C. Bartelt, Dynamics of step doubling: simulations for a simple model and comparison with experiment 339 (1995) 353

Silicon

R.D. Aburano, Hawoong Hong, J.M. Roesler, D.-S. Lin, T.-C. Chiang and P. Zschack, X-ray study of the Ag/Si(111) interface 339 (1995) L891

T. Suzuki, J.J. Métois and K. Yagi, REM observations of the birth stage of the flat facets on an inner cylindrical silicon surface 339 (1995) 105

Silver

R.D. Aburano, Hawoong Hong, J.M. Roesler, D.-S. Lin, T.-C. Chiang and P. Zschack, X-ray study of the Ag/Si(111) interface 339 (1995) L891

F. Stietz, G. Meister, A. Goldmann and J.A. Schaefer, Surface anharmonicity: temperature dependence of dipole active vibrations on Ag(110) and Ag(110)(2 × 1)O 339 (1995) 1

J. Pawela-Crew and R.J. Madix, Lateral interactions in the desorption kinetics of weakly adsorbed species: unexpected differences in the desorption of C_4 alkenes and alkanes from Ag(110) due to oriented π-bonding of the alkenes 339 (1995) 8

J. Pawela-Crew, R.J. Madix and J. Stöhr, The effect of subsurface oxygen on the orientation of molecular oxygen on Ag(110) 339 (1995) 23

F. Buatier de Mongeot, U. Valbusa and M. Rocca, Oxygen adsorption on Ag(111) 339 (1995) 291

Tungsten

S.H. Overbury, P.F. Lyman, D.R. Mullins and N.D. Shinn, Core-level photoemission and alkali ion scattering structure analysis of Ni adsorption and surface alloying on W(001) 339 (1995) 68

C. Schiller, A.A. Koomans, T.L. van Rooy, C. Schönenberger and H.B. Elswijk, Decapitation of tungsten field emitter tips during sputter sharpening 339 (1995) L925

W. Xu and J.B. Adams, W adatom–adatom interactions on the W(110) surface 339 (1995) 241

W. Xu and J.B. Adams, W dimer diffusion on W(110) and (211) surfaces 339 (1995) 247

Compounds (non-molecular solids)

Alloys

A. Atrei, U. Bardi, M. Galeotti, G. Rovida, M. Torrini and E. Zanazzi, Alloying at the Co/Pt(111) interface: a study by crystallographic low energy electron diffraction 339 (1995) 323

Calcium fluoride

L. Ciepliński and C. Jedrzejek, Classical trajectories studies of DIET from calcium fluoride 339 (1995) L940

Cerium oxide

J.C. Conesa, Computer modeling of surfaces and defects on cerium dioxide 339 (1995) 337

Copper oxides

M.S. Spencer, The reactions of carbon dioxide with the copper metal surface in a $Cu/ZnO/Al_2O_3$ catalyst 339 (1995) L897

Copper silicide

Y. Samson, B. Tardy, J.C. Bertolini and G. Laroze, Na growth on Cu_3Si and CH_3Cl adsorption on a Na promoted Cu_3Si surface: an XPS and AES study 339 (1995) 159

Gallium arsenide

M. Yamada and Y. Ide, Anomalous behaviors observed in the isothermal desorption of GaAs surface oxides 339 (1995) L914

M. Xi and K.F. Jensen, Chemisorption and decomposition of tris(dimethylamino) phosphine on GaAs(100) 339 (1995) 310

Gallium oxide

M. Yamada and Y. Ide, Anomalous behaviors observed in the isothermal desorption of GaAs surface oxides 339 (1995) L914

Gold silicide

K. Sekar, G. Kuri, P.V. Satyam, B. Sundaravel, D.P. Mahapatra and B.N. Dev, Growth and alignment of gold silicide islands on Br-passivated vicinal Si(111) surfaces 339 (1995) 96

Magnesium oxides

M.C. Gallagher, M.S. Fyfield, J.P. Cowin and S.A. Joyce, Imaging insulating oxides: scanning tunneling microscopy of ultrathin MgO films on Mo(001) 339 (1995) L909

S.A. Chambers, Y. Gao and Y. Liang, The early stages of MgO epitaxy on lattice-matched $Cr_{0.7}Mo_{0.3}(001)$ 339 (1995) 297

Methyl chloride

Y. Samson, B. Tardy, J.C. Bertolini and G. Laroze, Na growth on Cu_3Si and CH_3Cl adsorption on a Na promoted Cu_3Si surface: an XPS and AES study 339 (1995) 159

Silicon carbide

S. Juillaguet, L. Kubler, M. Diani, J.L. Bischoff, G. Gewinner, P. Wetzel and N. Bécourt, Strong element dependence of C 1s and Si 2p X-ray photoelectron diffraction profiles for identical C and Si local geometries in β-SiC 339 (1995) 363

Tin oxides

I. Manassidis, J. Goniakowski, L.N. Kantorovich and M.J. Gillan, The structure of the stoichiometric and reduced $SnO_2(110)$ surface 339 (1995) 258

Titanium oxide

F. Pesty, H.-P. Steinrück and T.E. Madey, Thermal stability of Pt films on $TiO_2(110)$: evidence for encapsulation 339 (1995) 83

A.N. Shultz, W. Jang, W.M. Hetherington, III, D.R. Baer, L.-Q. Wang and M.H. Engelhard, Comparative second harmonic generation and X-ray photoelectron spectroscopy studies of the UV creation ond O_2 healing of Ti^{3+} defects on (10) rutile TiO_2 surfaces 339 (1995) 114

Molecules

Alkanes

J. Pawela-Crew and R.J. Madix, Lateral interactions in the desorption kinetics of weakly adsorbed species: unexpected differences in the desorption of C_4 alkenes and alkanes from Ag(110) due to oriented π-bonding of the alkenes 339 (1995) 8

Alkenes

J. Pawela-Crew and R.J. Madix, Lateral interactions in the desorption kinetics of weakly adsorbed species: unexpected differences in the desorption of C_4 alkenes and alkanes from Ag(110) due to oriented π-bonding of the alkenes 339 (1995) 8

J.M. Meyers and A.J. Gellman, The investigation of fluorinated propenes on the Cu(111) surface 339 (1995) 57

W.-H. Hung and S.L. Bernasek, Adsorption and decomposition of ethylene and acetylene on Fe(100) 339 (1995) 272

Alkynes

W.-H. Hung and S.L. Bernasek, Adsorption and decomposition of ethylene and acetylene on Fe(100) 339 (1995) 272

Carbon dioxide

M.S. Spencer, The reactions of carbon dioxide with the copper metal surface in a $Cu/ZnO/Al_2O_3$ catalyst 339 (1995) L897

Carbon monoxide

N. Vasquez, Jr., A. Muscat and R.J. Madix, Coverage and site distribution effects in the desorption of carbon monoxide from sulfur-covered Ni(100) 339 (1995) 29

Hydrogen

Th. Kammler, S. Wehner and J. Küppers, Interaction of thermal H atoms with Ni(100)–H surfaces: through surface penetration and adsorbed hydrogen abstraction 339 (1995) 125

Oxygen

F. Stietz, G. Meister, A. Goldmann and J.A. Schaefer, Surface anharmonicity: temperature dependence of dipole active vibrations on Ag(110) and Ag(110)(2×1)O 339 (1995) 1

J. Pawela-Crew, R.J. Madix and J. Stöhr, The effect of subsurface oxygen on the orientation of molecular oxygen on Ag(110) 339 (1995) 23

C. Cohen, A. L'Hoir, J. Moulin, D. Schmaus, M. Sotto, J.-L. Domange and J.-C. Boulliard, Study of atomic relaxations on clean and oxygen covered (100), (410) and (510) copper surfaces by channeling 339 (1995) 41

J.D. Batteas, A. Barbieri, E.K. Starkey, M.A. Van Hove and G.A. Somorjai, The Rh(110)-p2mg(2×1)-2O surface structure determined by automated tensor LEED: structure changes with oxygen coverage 339 (1995) 142

W. Liu, K.C. Wong and K.A.R. Mitchell, Structural details for the Cu(110)-c(6×2)-O surface determined by tensor LEED 339 (1995) 151

M. Gierer, F. Mertens, H. Over, G. Ertl and R. Imbihl, Structural analyses of the c(2×4)-N + 2O and the (2×1)-N phases on Rh(110) by low-energy electron diffraction 339 (1995) L903

F. Buatier de Mongeot, U. Valbusa and M. Rocca, Oxygen adsorption on Ag(111) 339 (1995) 291

S.V. Khare, T.L. Einstein and N.C. Bartelt, Dynamics of step doubling: simulations for a simple model and comparison with experiment 339 (1995) 353

PHYSICAL STATE

Surfaces

Polycrystalline surfaces

M.S. Spencer, The reactions of carbon dioxide with the copper metal surface in a $Cu/ZnO/Al_2O_3$ catalyst 339 (1995) L897

Single crystal surfaces

S.H. Overbury, P.F. Lyman, D.R. Mullins and N.D. Shinn, Core-level photoemission and alkali ion scattering structure analysis of Ni adsorption and surface alloying on W(001) 339 (1995) 68

G.E. Makhmetov, A.G. Borisov, D. Teillet-Billy and J.P. Gauyacq, Singlet to triplet conversion in low energy He metastable collisions with metal surfaces: conversion via He^+ formation 339 (1995) 182

G. Benedek and S. Miret-Artés, Focussed inelastic resonances in particle scattering from surfaces 339 (1995) L935

W. Xu and J.B. Adams, W adatom–adatom interactions on the W(110) surface 339 (1995) 241

W. Xu and J.B. Adams, W dimer diffusion on W(110) and (211) surfaces 339 (1995) 247

Low index single crystal surfaces

F. Stietz, G. Meister, A. Goldmann and J.A. Schaefer, Surface anharmonicity: temperature dependence of dipole active vibrations on Ag(110) and Ag(110)(2 × 1)O 339 (1995) 1

J. Pawela-Crew and R.J. Madix, Lateral interactions in the desorption kinetics of weakly adsorbed species: unexpected differences in the desorption of C_4 alkenes and alkanes from Ag(110) due to oriented π-bonding of the alkenes 339 (1995) 8

N. Vasquez, Jr., A. Muscat and R.J. Madix, Coverage and site distribution effects in the desorption of carbon monoxide from sulfur-covered Ni(100) 339 (1995) 29

P. Bellon, S.J. Chey, J.E. Van Nostrand, M. Ghaly, D.G. Cahill and R.S. Averback, Surface damage produced by 20 keV Ga bombardment of Ge(001) 339 (1995) 135

W. Liu, K.C. Wong and K.A.R. Mitchell, Structural details for the Cu(110)-c(6 × 2)-O surface determined by tensor LEED 339 (1995) 151

M.C. Gallagher, M.S. Fyfield, J.P. Cowin and S.A. Joyce, Imaging insulating oxides: scanning tunneling microscopy of ultrathin MgO films on Mo(001) 339 (1995) L909

L. Ciepliński and C. Jedrzejek, Classical trajectories studies of DIET from calcium fluoride 339 (1995) L940

I. Manassidis, J. Goniakowski, L.N. Kantorovich and M.J. Gillan, The structure of the stoichiometric and reduced SnO_2(110) surface 339 (1995) 258

W.-H. Hung and S.L. Bernasek, Adsorption and decomposition of ethylene and acetylene on Fe(100) 339 (1995) 272

F. Buatier de Mongeot, U. Valbusa and M. Rocca, Oxygen adsorption on Ag(111) 339 (1995) 291

M. Xi and K.F. Jensen, Chemisorption and decomposition of tris(dimethylamino) phosphine on GaAs(100) 339 (1995) 310

A. Atrei, U. Bardi, M. Galeotti, G. Rovida, M. Torrini and E. Zanazzi, Alloying at the Co/Pt(111) interface: a study by crystallographic low energy electron diffraction 339 (1995) 323

P.W. Faguy and N.S. Marinkovic, Linear polarization discrimination for in situ infrared spectroscopy at electrode surfaces 339 (1995) 329

J.C. Conesa, Computer modeling of surfaces and defects on cerium dioxide 339 (1995) 337

S. Juillaguet, L. Kubler, M. Diani, J.L. Bischoff, G. Gewinner, P. Wetzel and N. Bécourt, Strong element dependence of C 1s and Si 2p X-ray photoelectron diffraction profiles for identical C and Si local geometries in β-SiC 339 (1995) 363

Stepped single crystal surfaces

J.C. Conesa, Computer modeling of surfaces and defects on cerium dioxide 339 (1995) 337

S.V. Khare, T.L. Einstein and N.C. Bartelt, Dynamics of step doubling: simulations for a simple model and comparison with experiment 339 (1995) 353

Vicinal single crystal surfaces

K. Sekar, G. Kuri, P.V. Satyam, B. Sundaravel, D.P. Mahapatra and B.N. Dev, Growth and alignment of gold silicide islands on Br-passivated vicinal Si(111) surfaces 339 (1995) 96

T. Suzuki, J.J. Métois and K. Yagi, REM observations of the birth stage of the flat facets on an inner cylindrical silicon surface 339 (1995) 105

Surface defects

A.N. Shultz, W. Jang, W.M. Hetherington, III, D.R. Baer, L.-Q. Wang and M.H. Engelhard, Comparative second harmonic generation and X-ray photoelectron spectroscopy studies of the UV creation ond O_2 healing of Ti^{3+} defects on (10) rutile TiO_2 surfaces 339 (1995) 114

P. Bellon, S.J. Chey, J.E. Van Nostrand, M. Ghaly, D.G. Cahill and R.S. Averback, Surface damage produced by 20 keV Ga bombardment of Ge(001) 339 (1995) 135

Yu.S. Kaganovskii, D.L. Beke and S.P. Yurchenko, Shift of the boundary of a beaded thin film caused by evaporation 339 (1995) 233

J.C. Conesa, Computer modeling of surfaces and defects on cerium dioxide 339 (1995) 337

Interfaces

Crystalline–amorphous interfaces

M. Yamada and Y. Ide, Anomalous behaviors observed in the isothermal desorption of GaAs surface oxides 339 (1995) L914

Single crystal epitaxy

S.A. Chambers, Y. Gao and Y. Liang, The early stages of MgO epitaxy on lattice-matched $Cr_{0.7}Mo_{0.3}$(001) 339 (1995) 297

Adatoms

N. Vasquez, Jr., A. Muscat and R.J. Madix, Coverage and site distribution effects in the desorption of carbon monoxide from sulfur-covered Ni(100) 339 (1995) 29

J.D. Batteas, A. Barbieri, E.K. Starkey, M.A. Van Hove and G.A. Somorjai, The Rh(110)-p2mg(2 × 1)-2O surface structure determined by automated tensor LEED: structure changes with oxygen coverage 339 (1995) 142

W. Xu and J.B. Adams, W adatom–adatom interactions on the W(110) surface 339 (1995) 241

F. Buatier de Mongeot, U. Valbusa and M. Rocca, Oxygen adsorption on Ag(111) 339 (1995) 291

Clusters

W. Xu and J.B. Adams, W adatom–adatom interactions on the W(110) surface 339 (1995) 241

W. Xu and J.B. Adams, W dimer diffusion on W(110) and (211) surfaces 339 (1995) 247

ELECTRICAL AND MAGNETIC BEHAVIOR

Surfaces and / or films

Insulating films

M.C. Gallagher, M.S. Fyfield, J.P. Cowin and S.A. Joyce, Imaging insulating oxides: scanning tunneling microscopy of ultrathin MgO films on Mo(001) 339 (1995) L909

Metallic films

F. Pesty, H.-P. Steinrück and T.E. Madey, Thermal stability of Pt films on TiO_2(110): evidence for encapsulation 339 (1995) 83

A. Atrei, U. Bardi, M. Galeotti, G. Rovida, M. Torrini and E. Zanazzi, Alloying at the Co/Pt(111) interface: a study by crystallographic low energy electron diffraction 339 (1995) 323

Metallic surfaces

J.D. Batteas, A. Barbieri, E.K. Starkey, M.A. Van Hove and G.A. Somorjai, The Rh(110)-p2mg(2 × 1)-2O surface structure determined by automated tensor LEED: structure changes with oxygen coverage 339 (1995) 142

Semiconducting surfaces

M. Xi and K.F. Jensen, Chemisorption and decomposition of tris(dimethylamino) phosphine on GaAs(100) 339 (1995) 310

Interfaces

Metal–electrolyte interfaces

P.W. Faguy and N.S. Marinkovic, Linear polarization discrimination for in situ infrared spectroscopy at electrode surfaces 339 (1995) 329

Metal–insulator interfaces

F. Pesty, H.-P. Steinrück and T.E. Madey, Thermal stability of Pt films on TiO_2(110): evidence for encapsulation 339 (1995) 83

S.A. Chambers, Y. Gao and Y. Liang, The early stages of MgO epitaxy on lattice-matched $Cr_{0.7}Mo_{0.3}$(001) 339 (1995) 297

Metal–metal interfaces

S.H. Overbury, P.F. Lyman, D.R. Mullins and N.D. Shinn, Core-level photoemission and alkali ion scattering structure analysis of Ni adsorption and surface alloying on W(001) 339 (1995) 68

Metal–semiconductor interfaces

R.D. Aburano, Hawoong Hong, J.M. Roesler, D.-S. Lin, T.-C. Chiang and P. Zschack, X-ray study of the Ag/Si(111) interface 339 (1995) L891